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M.A. Henderson, S. Otero-Tapia and M.E. Castro, Electron-induced decomposition of methanol on the vacuum-annealed surface of TiO_2(110) 412/413 (1998) 252

Electrochemical methods

J.X. Wang, I.K. Robinson and R.R. Adžić, Formation of well-ordered surface compounds by coadsorption of thallium and bromide on the Au(111) electrode surface 412/413 (1998) 374

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H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1

Electron energy loss spectroscopy

H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1

W.S. Epling, C.H.F. Peden, M.A. Henderson and U. Diebold, Evidence for oxygen adatoms on TiO_2(110) resulting from O_2 dissociation at vacancy sites 412/413 (1998) 333

D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364

P. Frantz and S.V. Didziulis, Detailed spectroscopic studies of oxygen on metal carbide surfaces 412/413 (1998) 384

C.G.H. Walker, J.A.D. Matthew, C.A. Anderson and N.M.D. Brown, An estimate of the electron effective mass in titanium nitride using UPS and EELS 412/413 (1998) 405

Electron microscopy

I. Berbezier, B. Gallas, A. Ronda and J. Derrien, Dependence of SiGe growth instability on Si substrate orientation 412/413 (1998) 415

R.E.R. Colen, M. Kolodziejczyk, B. Delmon and J.H. Block, Kinetic study of CO oxidation on copper modified Pt(111) 412/413 (1998) 447

Scanning transmission electron microscopy (STEM)

S.A. Nepijko, M. Klimenkov, H. Kuhlenbeck, D. Zemlyanov, D. Herein, R. Schlögl and H.-J. Freund, TEM study of tantalum clusters on Al_2O_3/NiAl(110) 412/413 (1998) 192

I. Berbezier, B. Gallas, A. Ronda and J. Derrien, Dependence of SiGe growth instability on Si substrate orientation 412/413 (1998) 415

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B. Narloch and D. Menzel, The geometry of xenon and krypton on Ru(001): a LEED *IV* investigation 412/413 (1998) 562

Low energy electron diffraction (LEED)

L. Hammer, H. Graupner, V. Blum, K. Heinz, G.W. Ownby and D.M. Zehner, Segregation phenomena on surfaces of the ordered bimetallic alloy FeAl 412/413 (1998) 69

R. Kosugi, S. Sumitani, T. Abukawa, Y. Takakuwa, S. Suzuki, S. Sato and S. Kono, X-ray photoelectron diffraction study of Si(001)c(4 × 4)-C surface 412/413 (1998) 125

M. Hohenegger, E. Bechtold and R. Schennach, Coadsorption of oxygen and chlorine on Pt(111) 412/413 (1998) 184

L.P. Zhang, M. Li and U. Diebold, Characterization of Ca impurity segregation on the TiO_2(110) surface 412/413 (1998) 242

P. Liu, T. Kendelewicz, G.E. Brown, Jr. and G.A. Parks, Reaction of water with MgO(100) surfaces. Part I: Synchrotron X-ray photoemission studies of low-defect surfaces 412/413 (1998) 287

P. Liu, T. Kendelewicz and G.E. Brown, Jr., Reaction of water with MgO(100) surfaces. Part II: Synchrotron photoemission studies of defective surfaces 412/413 (1998) 315

B. Narloch and D. Menzel, The geometry of xenon and krypton on Ru(001): a LEED *IV* investigation 412/413 (1998) 562

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M. Shimomura, N. Sanada, G. Kaneda, T. Takeuchi, Y. Suzuki, Y. Fukuda, W.R.A. Huff, T. Abukawa, S. Kono, H.W. Yeom and A. Kakizaki, X-ray photoelectron diffraction and surface core-level shift study of clean InP(001) 412/413 (1998) 625

Transmission high-energy electron diffraction

I. Berbezier, B. Gallas, A. Ronda and J. Derrien, Dependence of SiGe growth instability on Si substrate orientation 412/413 (1998) 415

Ion scattering spectroscopy

L.P. Zhang, M. Li and U. Diebold, Characterization of Ca impurity segregation on the TiO_2(110) surface 412/413 (1998) 242

Low energy ion scattering (LEIS)

E. Platzgummer, M. Borrell, C. Nagl, M. Schmid and P. Varga, Trajectory-dependent neutralization of 1 keV He^+ ions scattered from Pb(111) and Pb films on Cu(100) 412/413 (1998) 202

I. Spolveri, A. Atrei, B. Cortigiani, U. Bardi, A. Santucci and D. Ghisletti, Surface composition of the phases formed by solid state reaction at the Cr/ZnO(000$\bar{1}$) interface studied by low energy ion scattering and X-ray photoelectron spectroscopy 412/413 (1998) 631

Isotopic exchange/traces

D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364

Magnetic measurements

C. Train and V. Mathet, Morphology and magnetic properties of Pt/Co/Pt/Al_2O_3(0001) structures: influence of the growth temperature 412/413 (1998) 495

Molecular beam epitaxy

B. Flach, E. Hulpke and W. Steinhögl, Characterization of epitaxial rubidium films with helium-atom scattering 412/413 (1998) 12

I. Berbezier, B. Gallas, A. Ronda and J. Derrien, Dependence of SiGe growth instability on Si substrate orientation 412/413 (1998) 415

Molecule–solid reactions

D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364

Molecule–solid scattering and diffraction – inelastic

T. Takaoka and I. Kusunoki, Sticking probability and adsorption process of NH_3 on Si(100) surface 412/413 (1998) 30

Nuclear magnetic resonance

H.D. Ebinger, H. Arnolds, C. Polenz, B. Polivka, W. Preyβ, R. Veith, D. Fick and H.J. Jänsch, Adsorption and diffusion of Li on an Ru(001) surface: an NMR study 412/413 (1998) 586

Photoelectron spectroscopy

S. Chaturvedi, J. Rodriguez, T. Jirsak and J. Hrbek, Ag "promoted" sulfidation of metal and oxide surfaces: a photoemission study of the interaction of sulfur with Ag/Rh(111) and Ag/ZnO 412/413 (1998) 273

P. Frantz and S.V. Didziulis, Detailed spectroscopic studies of oxygen on metal carbide surfaces 412/413 (1998) 384

Angle resolved photoemission

R. Matzdorf and A. Goldmann, Photo-hole lifetimes of adsorbate-bands at the Cu(110)(2 × 1)O surface 412/413 (1998) 61

K. Yagi and H. Fukutani, Oxygen adsorption site of Pd(110)c(2 × 4)-O: analysis of ARUPS compared with STM image 412/413 (1998) 489

Soft X-ray photoelectron spectroscopy (using synchrotron radiation)

H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1

C.G.H. Walker, J.A.D. Matthew, C.A. Anderson and N.M.D. Brown, An estimate of the electron effective mass in titanium nitride using UPS and EELS 412/413 (1998) 405

X-ray photoelectron spectroscopy

J.A. Leiro, K. Laajalehto, I. Kartio and M.H. Heinonen, Surface core-level shift and phonon broadening in PbS(100) 412/413 (1998) L918

S.A. Nepijko, M. Klimenkov, H. Kuhlenbeck, D. Zemlyanov, D. Herein, R. Schlögl and H.-J. Freund, TEM study of tantalum clusters on Al_2O_3/NiAl(110) 412/413 (1998) 192

L.P. Zhang, M. Li and U. Diebold, Characterization of Ca impurity segregation on the TiO_2(110) surface 412/413 (1998) 242

B.J. Kowalski, B.A. Orłowski and J. Ghijsen, XPS study of CdTe(110) surface oxidation process 412/413 (1998) 544
H.H. Huang, X. Jiang, Z. Zou, W.S. Chin, G.Q. Xu, W.L. Dai, K.N. Fan and J.F. Deng, Potassium adsorption and reaction with water on MgO(100) 412/413 (1998) 555
I. Spolveri, A. Atrei, B. Cortigiani, U. Bardi, A. Santucci and D. Ghisletti, Surface composition of the phases formed by solid state reaction at the Cr/ZnO(000$\bar{1}$) interface studied by low energy ion scattering and X-ray photoelectron spectroscopy 412/413 (1998) 631

Synchrotron radiation photoelectron spectroscopy

P. Liu, T. Kendelewicz, G.E. Brown, Jr. and G.A. Parks, Reaction of water with MgO(100) surfaces. Part I: Synchrotron X-ray photoemission studies of low-defect surfaces 412/413 (1998) 287
P. Liu, T. Kendelewicz and G.E. Brown, Jr., Reaction of water with MgO(100) surfaces. Part II: Synchrotron photoemission studies of defective surfaces 412/413 (1998) 315
M. Carbone, M.N. Piancastelli, J.J. Paggel, Chr. Weindel and K. Horn, A high-resolution photoemission study of ethanol adsorption on Si(111)-(7 × 7) 412/413 (1998) 441
M. Shimomura, N. Sanada, G. Kaneda, T. Takeuchi, Y. Suzuki, Y. Fukuda, W.R.A. Huff, T. Abukawa, S. Kono, H.W. Yeom and A. Kakizaki, X-ray photoelectron diffraction and surface core-level shift study of clean InP(001) 412/413 (1998) 625

Photon absorption spectroscopy

Infrared absorption spectroscopy

C. Tang, S. Zou and M.J. Weaver, Interactions within mixed NO/CO adlayers at the Pt(100)–aqueous electrochemical interface as probed by infrared spectroscopy 412/413 (1998) 344

Near edge extended X-ray absorption fine structure (NEXAFS)

G. Contini, A. Ciccioli, C. Laffon, Ph. Parent and G. Polzonetti, NEXAFS study of 2-mercaptobenzoxazole adsorbed on Pt(111): multilayer and monolayer 412/413 (1998) 158

Surface extended X-ray absorption fine structure (SEXAFS)

M. Polcik, J. Haase, M. Ondrejcek and J.H. Petersen, Structure determination of Cu(210)-(1 × 2)-O by use of SEXAFS measurements 412/413 (1998) 580

Scanning tunneling microscopy

H. Hibino and T. Ogino, Formation of twinned two-bilayer-high islands during initial stages of Si growth on Si(111)$\sqrt{3} \times \sqrt{3}$-B 412/413 (1998) 132
H.Q. Yang, C.X. Zhu, J.N. Gao, Z.Q. Xue and S.J. Pang, Large area dimer vacancy array on the Si(100) surface studied by scanning tunneling microscope 412/413 (1998) 236
L.P. Zhang, M. Li and U. Diebold, Characterization of Ca impurity segregation on the TiO_2(110) surface 412/413 (1998) 242
P. Frantz and S.V. Didziulis, Detailed spectroscopic studies of oxygen on metal carbide surfaces 412/413 (1998) 384
G. Palasantzas, B. Ilge, J. de Nijs and L.J. Geerligs, Diffusion, nucleation and annealing of Co on the H-passivated Si(100) surface 412/413 (1998) 509
M. Giesen and G. Schulze Icking-Konert, Equilibrium fluctuations and decay of step bumps on vicinal Cu (111) surfaces 412/413 (1998) 645
R.E. Tanner, M.R. Castell and G.A.D. Briggs, High resolution scanning tunnelling microscopy of the rutile TiO_2(110) surface 412/413 (1998) 672

Secondary ion mass spectroscopy

A. Delcorte and P. Bertrand, Sputtering of parent-like ions from large organic adsorbates on metals under keV ion bombardment 412/413 (1998) 97

Sputter deposition

C.G.H. Walker, J.A.D. Matthew, C.A. Anderson and N.M.D. Brown, An estimate of the electron effective mass in titanium nitride using UPS and EELS 412/413 (1998) 405

Thermal desorption spectroscopy

P. Hahn, M.F. Bertino, J.P. Toennies, M. Ritter and W. Weiss, Structure and reaction properties of thin Al films deposited on Ni(110) 412/413 (1998) 82
M. Hohenegger, E. Bechtold and R. Schennach, Coadsorption of oxygen and chlorine on Pt(111) 412/413 (1998) 184
M.A. Henderson, S. Otero-Tapia and M.E. Castro, Electron-induced decomposition of methanol on the vacuum-annealed surface of TiO_2(110) 412/413 (1998) 252
W.S. Epling, C.H.F. Peden, M.A. Henderson and U. Diebold, Evidence for oxygen adatoms on TiO_2(110) resulting from O_2 dissociation at vacancy sites 412/413 (1998) 333
H.H. Huang, X. Jiang, Z. Zou, W.S. Chin, G.Q. Xu, W.L. Dai, K.N. Fan and J.F. Deng, Potassium adsorption and reaction with water on MgO(100) 412/413 (1998) 555
H.D. Ebinger, H. Arnolds, C. Polenz, B. Polivka, W. Preyβ, R. Veith, D. Fick and H.J. Jänsch, Adsorption and diffusion of Li on an Ru(001) surface: an NMR study 412/413 (1998) 586

Work function measurements

H.D. Ebinger, H. Arnolds, C. Polenz, B. Polivka, W. Preyβ, R. Veith, D. Fick and H.J. Jänsch, Adsorption and diffusion of Li on an Ru(001) surface: an NMR study 412/413 (1998) 586

X-ray scattering, diffraction, and reflection

R. Kosugi, S. Sumitani, T. Abukawa, Y. Takakuwa, S. Suzuki, S. Sato and S. Kono, X-ray photoelectron diffraction study of Si(001)c(4 × 4)-C surface 412/413 (1998) 125
J.X. Wang, I.K. Robinson and R.R. Adžić, Formation of well-ordered surface compounds by coadsorption of thallium and bromide on the Au(111) electrode surface 412/413 (1998) 374

PHENOMENA

Adsorption kinetics

T. Takaoka and I. Kusunoki, Sticking probability and adsorption process of NH_3 on Si(100) surface 412/413 (1998) 30

M. Hohenegger, E. Bechtold and R. Schennach, Coadsorption of oxygen and chlorine on Pt(111) 412/413 (1998) 184

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P. Hahn, M.F. Bertino, J.P. Toennies, M. Ritter and W. Weiss, Structure and reaction properties of thin Al films deposited on Ni(110) 412/413 (1998) 82
F.J. Williams, C.M. Aldao, A. Palermo and R.M. Lambert, A Monte Carlo simulation of the NO + CO reaction on Na-promoted platinum 412/413 (1998) 174
D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364
M. Eriksson and L.-G. Ekedahl, The catalytic oxidation of CO on polycrystalline Pd: experiments and kinetic modeling 412/413 (1998) 430
A. Snis and I. Panas, Surface complexes of nitric oxide: adsorption of anionic NO and N_2O_2 on CaO 412/413 (1998) 477
V.P. Zhdanov and B. Kasemo, Kinetics of the $2A + B_2 \rightarrow 2AB$ reaction complicated by spatial constraints for adsorption, formation of islands, and steps 412/413 (1998) 527
R.E. Tanner, M.R. Castell and G.A.D. Briggs, High resolution scanning tunnelling microscopy of the rutile $TiO_2(110)$ surface 412/413 (1998) 672

Chemisorption

R. Matzdorf and A. Goldmann, Photo-hole lifetimes of adsorbate-bands at the Cu(110)(2 × 1)O surface 412/413 (1998) 61
P. Hahn, M.F. Bertino, J.P. Toennies, M. Ritter and W. Weiss, Structure and reaction properties of thin Al films deposited on Ni(110) 412/413 (1998) 82
G. Contini, A. Ciccioli, C. Laffon, Ph. Parent and G. Polzonetti, NEXAFS study of 2-mercaptobenzoxazole adsorbed on Pt(111): multilayer and monolayer 412/413 (1998) 158
P. Milligan, J. M°Namarra, B. Murphy, B.C.C. Cowie, D. Lennon and M. Kadodwala, A NIXSW and NEXAFS investigation of thiophene on Cu(111) 412/413 (1998) 166
M. Hohenegger, E. Bechtold and R. Schennach, Coadsorption of oxygen and chlorine on Pt(111) 412/413 (1998) 184
C. Tang, S. Zou and M.J. Weaver, Interactions within mixed NO/CO adlayers at the Pt(100)–aqueous electrochemical interface as probed by infrared spectroscopy 412/413 (1998) 344
D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364
M. Carbone, M.N. Piancastelli, J.J. Paggel, Chr. Weindel and K. Horn, A high-resolution photoemission study of ethanol adsorption on Si(111)-(7 × 7) 412/413 (1998) 441
A. Snis and I. Panas, Surface complexes of nitric oxide: adsorption of anionic NO and N_2O_2 on CaO 412/413 (1998) 477
V. Ledentu, W. Dong and P. Sautet, Ab initio study of the dissociative adsorption of H_2 on the Pd(110) surface 412/413 (1998) 518
H.D. Ebinger, H. Arnolds, C. Polenz, B. Polivka, W. Preyß, R. Veith, D. Fick and H.J. Jänsch, Adsorption and diffusion of Li on an Ru(001) surface: an NMR study 412/413 (1998) 586
M. Mayer, G. Pacchioni and N. Rösch, Bonding of transition metal atoms on the Al(100) surface from density functional calculations. I. Anomalous work function change as relativistic effect 412/413 (1998) 616

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H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1
I. Spolveri, A. Atrei, B. Cortigiani, U. Bardi, A. Santucci and D. Ghisletti, Surface composition of the phases formed by solid state reaction at the Cr/ZnO(000$\bar{1}$) interface studied by low energy ion scattering and X-ray photoelectron spectroscopy 412/413 (1998) 631

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M. Giesen and G. Schulze Icking-Konert, Equilibrium fluctuations and decay of step bumps on vicinal Cu (111) surfaces 412/413 (1998) 645

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M.A. Henderson, S. Otero-Tapia and M.E. Castro, Electron-induced decomposition of methanol on the vacuum-annealed surface of $TiO_2(110)$ 412/413 (1998) 252

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H. Hibino and T. Ogino, Formation of twinned two-bilayer-high islands during initial stages of Si growth on Si(111)$\sqrt{3} \times \sqrt{3}$-B 412/413 (1998) 132
I. Spolveri, A. Atrei, B. Cortigiani, U. Bardi, A. Santucci and D. Ghisletti, Surface composition of the phases formed by solid state reaction at the Cr/ZnO(000$\bar{1}$) interface studied by low energy ion scattering and X-ray photoelectron spectroscopy 412/413 (1998) 631

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P. Jensen, H. Larralde, M. Meunier and A. Pimpinelli, Growth of three-dimensional structures by atomic deposition on surfaces containing defects: simulations and theory 412/413 (1998) 458

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H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1
P. Hahn, M.F. Bertino, J.P. Toennies, M. Ritter and W. Weiss, Structure and reaction properties of thin Al films deposited on Ni(110) 412/413 (1998) 82
C. Train and V. Mathet, Morphology and magnetic properties of Pt/Co/Pt/Al_2O_3(0001) structures: influence of the growth temperature 412/413 (1998) 495

G. Palasantzas, B. Ilge, J. de Nijs and L.J. Geerligs, Diffusion, nucleation and annealing of Co on the H-passivated Si(100) surface 412/413 (1998) 509

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A. Delcorte and P. Bertrand, Sputtering of parent-like ions from large organic adsorbates on metals under keV ion bombardment 412/413 (1998) 97

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P. Jensen, H. Larralde, M. Meunier and A. Pimpinelli, Growth of three-dimensional structures by atomic deposition on surfaces containing defects: simulations and theory 412/413 (1998) 458
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H.D. Ebinger and J.T. Yates, Jr., Oxidation of Al(111) by electron impact on adsorbed H_2O 412/413 (1998) 1
P. Frantz and S.V. Didziulis, Detailed spectroscopic studies of oxygen on metal carbide surfaces 412/413 (1998) 384
R.E.R. Colen, M. Kolodziejczyk, B. Delmon and J.H. Block, Kinetic study of CO oxidation on copper modified Pt(111) 412/413 (1998) 447
B.J. Kowalski, B.A. Orłowski and J. Ghijsen, XPS study of CdTe(110) surface oxidation process 412/413 (1998) 544

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P. Fenter, F. Schreiber, L. Berman, G. Scoles, P. Eisenberger and M.J. Bedzyk, On the structure and evolution of the buried S/Au interface in self-assembled monolayers: X-ray standing wave results 412/413 (1998) 213

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A. Delcorte and P. Bertrand, Sputtering of parent-like ions from large organic adsorbates on metals under keV ion bombardment 412/413 (1998) 97

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M. Eriksson and L.-G. Ekedahl, The catalytic oxidation of CO on polycrystalline Pd: experiments and kinetic modeling 412/413 (1998) 430

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F.J. Williams, C.M. Aldao, A. Palermo and R.M. Lambert, A Monte Carlo simulation of the NO + CO reaction on Na-promoted platinum 412/413 (1998) 174
S. Chaturvedi, J. Rodriguez, T. Jirsak and J. Hrbek, Ag "promoted" sulfidation of metal and oxide surfaces: a photoemission study of the interaction of sulfur with Ag/Rh(111) and Ag/ZnO 412/413 (1998) 273
W.S. Epling, C.H.F. Peden, M.A. Henderson and U. Diebold, Evidence for oxygen adatoms on TiO_2(110) resulting from O_2 dissociation at vacancy sites 412/413 (1998) 333
V. Ledentu, W. Dong and P. Sautet, Ab initio study of the dissociative adsorption of H_2 on the Pd(110) surface 412/413 (1998) 518

Surface diffusion

I. Vattulainen, Memory effects in Arrhenius barriers for surface diffusion 412/413 (1998) L911
K. Mussawisade, T. Wichmann and K.W. Kehr, Single-particle diffusion coefficient on surfaces with Ehrlich–Schwoebel barriers 412/413 (1998) 55
V.P. Zhdanov and B. Kasemo, Kinetics of the $2A + B_2 \rightarrow 2AB$ reaction complicated by spatial constraints for adsorption, formation of islands, and steps 412/413 (1998) 527
H.D. Ebinger, H. Arnolds, C. Polenz, B. Polivka, W. Preyß, R. Veith, D. Fick and H.J. Jänsch, Adsorption and diffusion of Li on an Ru(001) surface: an NMR study 412/413 (1998) 586

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R. Matzdorf and A. Goldmann, Photo-hole lifetimes of adsorbate-bands at the Cu(110)(2 × 1)O surface 412/413 (1998) 61
E. Platzgummer, M. Borrell, C. Nagl, M. Schmid and P. Varga, Trajectory-dependent neutralization of 1 keV He^+ ions scattered from Pb(111) and Pb films on Cu(100) 412/413 (1998) 202
C.G.H. Walker, J.A.D. Matthew, C.A. Anderson and N.M.D. Brown, An estimate of the electron effective mass in titanium nitride using UPS and EELS 412/413 (1998) 405
M. Mayer, G. Pacchioni and N. Rösch, Bonding of transition metal atoms on the Al(100) surface from density functional calculations. I. Anomalous work function change as relativistic effect 412/413 (1998) 616

Surface relaxation and reconstruction

N. Takeuchi, First-principles calculations of low-coverage phases of Pb on the (100) surface of Ge 412/413 (1998) 358
J.X. Wang, I.K. Robinson and R.R. Adžić, Formation of well-ordered surface compounds by coadsorption of thallium and bromide on the Au(111) electrode surface 412/413 (1998) 374
K. Yagi and H. Fukutani, Oxygen adsorption site of Pd(110)c(2 × 4)-O: analysis of ARUPS compared with STM image 412/413 (1998) 489
P. Badziag, A new carbon rich model of the α-SiC(0001)$\sqrt{3} \times \sqrt{3}$ surface reconstruction 412/413 (1998) 502
G. Palasantzas, B. Ilge, J. de Nijs and L.J. Geerligs, Diffusion, nucleation and annealing of Co on the H-passivated Si(100) surface 412/413 (1998) 509
R.E. Tanner, M.R. Castell and G.A.D. Briggs, High resolution scanning tunnelling microscopy of the rutile TiO_2(110) surface 412/413 (1998) 672

Surface segregation

L. Hammer, H. Graupner, V. Blum, K. Heinz, G.W. Ownby and D.M. Zehner, Segregation phenomena on surfaces of the ordered bimetallic alloy FeAl 412/413 (1998) 69

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B. Salanon and P. Hecquet, Stress on vicinal surfaces 412/413 (1998) 639

Surface structure, morphology, roughness, and topography

B. Flach, E. Hulpke and W. Steinhögl, Characterization of epitaxial rubidium films with helium-atom scattering 412/413 (1998) 12

L. Hammer, H. Graupner, V. Blum, K. Heinz, G.W. Ownby and D.M. Zehner, Segregation phenomena on surfaces of the ordered bimetallic alloy FeAl 412/413 (1998) 69

E. Platzgummer, M. Borrell, C. Nagl, M. Schmid and P. Varga, Trajectory-dependent neutralization of 1 keV He^+ ions scattered from Pb(111) and Pb films on Cu(100) 412/413 (1998) 202

P. Fenter, F. Schreiber, L. Berman, G. Scoles, P. Eisenberger and M.J. Bedzyk, On the structure and evolution of the buried S/Au interface in self-assembled monolayers: X-ray standing wave results 412/413 (1998) 213

N. Takeuchi, First-principles calculations of low-coverage phases of Pb on the (100) surface of Ge 412/413 (1998) 358

J.X. Wang, I.K. Robinson and R.R. Adžić, Formation of well-ordered surface compounds by coadsorption of thallium and bromide on the Au(111) electrode surface 412/413 (1998) 374

C. Train and V. Mathet, Morphology and magnetic properties of Pt/Co/Pt/Al_2O_3(0001) structures: influence of the growth temperature 412/413 (1998) 495

B. Narloch and D. Menzel, The geometry of xenon and krypton on Ru(001): a LEED *IV* investigation 412/413 (1998) 562

M. Polcik, J. Haase, M. Ondrejcek and J.H. Petersen, Structure determination of Cu(210)-(1 × 2)-O by use of SEXAFS measurements 412/413 (1998) 580

M. Shimomura, N. Sanada, G. Kaneda, T. Takeuchi, Y. Suzuki, Y. Fukuda, W.R.A. Huff, T. Abukawa, S. Kono, H.W. Yeom and A. Kakizaki, X-ray photoelectron diffraction and surface core-level shift study of clean InP(001) 412/413 (1998) 625

R.E. Tanner, M.R. Castell and G.A.D. Briggs, High resolution scanning tunnelling microscopy of the rutile TiO_2(110) surface 412/413 (1998) 672

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Plasmons

C.G.H. Walker, J.A.D. Matthew, C.A. Anderson and N.M.D. Brown, An estimate of the electron effective mass in titanium nitride using UPS and EELS 412/413 (1998) 405

Thermal desorption

M.A. Henderson, S. Otero-Tapia and M.E. Castro, Electron-induced decomposition of methanol on the vacuum-annealed surface of TiO_2(110) 412/413 (1998) 252

W.S. Epling, C.H.F. Peden, M.A. Henderson and U. Diebold, Evidence for oxygen adatoms on TiO_2(110) resulting from O_2 dissociation at vacancy sites 412/413 (1998) 333

D.A. Chen and C.M. Friend, Modifying selectivity of thin films by intervening non-metallic layers: reactions of ethanol-d_6 on supported Co films 412/413 (1998) 364

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A. Snis and I. Panas, Surface complexes of nitric oxide: adsorption of anionic NO and N_2O_2 on CaO 412/413 (1998) 477